

EPA Official Record

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From: Jetter, James

To: rchiang@cleancookstoves.org; Mitchell, John; asticklor@cleancookstoves.org

Delivered Date: 03/06/2013 04:35 PM EST

Subject: FW: DST and RE: Data Request

Attachments: Jetter et al. 2012 ES&Tsupporting info.pdf [4916 KB]; Jetter et al. 2012 ES&T.pdf [2731 KB]; DRAFT database Rev4.xlsx [436 KB]

Ranyee, John, and Amy,

FYI...

Jim

From: Jetter, James

Sent: Wednesday, March 06, 2013 3:53 PM

To: Thorneloe, Susan

Cc: Molly Rodgers; Colin Hayes; Kaplan, Ozge; Demeke, Bayou; Thurston, Hale; Thompson, Bob; Nunez, Carlos

Subject: DST and RE: Data Request

Susan, Molly, and All,

As we discussed yesterday, I think we can add great value by helping to make existing information more accessible, in collaboration with the Alliance and partners. I think collaboration with Colorado State University would be especially beneficial.

And I think a credible DST capable of estimating (predicting) health, climate, and fuel-use impacts would require resources at a similar level as the municipal solid waste DST. Estimating impacts on health, climate, and fuel-use is very complex and would require including important factors (in addition to stove selection) such as:

- displacement of traditional cooking methods (stove "stacking" issue - many intervention studies show that populations continue to use the "old" stove along with the "new" stove)
- stove usage (performance in actual use is often different than performance in lab tests) and activity patterns
- health and climate impacts are effected by a complex mix of pollutants and other variables – environmental conditions (local weather, ventilation, etc.)
- dose / response relationships
- climate and fuel use are effected by percent of biomass fuel sustainably harvested
- life-cycle analysis, as we discussed
- numerous other important factors

Assumptions (based on best available data and expert opinion) would be required in a DST to fill the many large data gaps, and I think an appropriate stakeholder group would need to be engaged throughout the development of a DST.

As you requested, an article (published), supporting information (published), and database (not distributed, but the same data are in the published supporting information) are attached. I think this dataset is an important (but only a small) part of the data that would be required to credibly estimate health, climate, and fuel-use impacts.

Also, as you requested, some additional fuels that may be included in a DST are:

- pellets - wood
- pellets - various blends of wood, agriculture residues, other biomass, coal
- alcohol/methanol
- agriculture residues (e.g., rice hulls, corn cobs, corn stalks, many others)
- biomass fuel crops (e.g., switch grass, jatropha, others)
- solar

Hope this is helpful.

I think a database and user interface that would enable easy access to the Alliance inventory, EPA dataset, and other data would be valuable to users! I think some calculation tools would also be valuable. And I think a DST that would estimate health, climate, and fuel-use impacts would require a very big increase in scope and budget.

Regards,
Jim

From: Thorneloe, Susan
Sent: Tuesday, March 05, 2013 12:29 PM
To: Jetter, James
Cc: Molly Rodgers; Colin Hayes
Subject: Fw: Data Request

See the below request. Thanks for your comments this morning!

From: Molly Rodgers
Sent: Tuesday, March 05, 2013 12:01:24 PM
To: Thorneloe, Susan
Cc: Molly Rodgers; Colin Hayes
Subject: Data Request

Hi Susan,

We were hoping that Jim could share the most current version of his research dataset. For this initial concept presentation, we would like to "load" the EPA dataset and would prefer to extract from the original source rather than pull it from compilation that Berkeley Air put together. If it's too large for e-mail I can set up an FTP area for him to post to. It would also be great if Colin could follow-up with him directly should he have any specific questions.

Thanks!
Molly

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